

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 8. (Canceled).

9. (Currently Amended) A sensor for determining a concentration of particles in gases, comprising:

at least one substrate element;

a first measuring electrode; and

a second measuring electrode, wherein there is a measuring area between the first measuring electrode and the second measuring electrode, wherein the first and second measuring electrodes are arranged so that by applying a voltage between the measuring electrodes an asymmetric electric field is formed on the measuring area; wherein the first and second measuring electrodes each include finger electrodes that are interdigitated to form an interdigital comb structure, and wherein the finger electrodes of at least one of the measuring electrodes ~~includes finger electrodes having~~ have varying widths.

10. (Previously Presented) The sensor of claim 9, wherein sides of the first and second measuring electrodes, facing one another, are not parallel to one another.

11. (Previously Presented) The sensor of claim 9, wherein a distance between the first and second measuring electrodes one of increases and decreases continuously along the electrodes.

Claim 12. (Canceled).

13. (Previously Presented) The sensor of claim 9, wherein one of the following is satisfied: (i) at least one of the measuring electrodes has a triangular cross-section; and (ii) the finger electrodes of at least one of the measuring electrodes have a triangular cross-section.

14. (Currently Amended) The sensor of claim 9, wherein ~~at least one measuring electrode has a raised pattern along the finger electrodes~~ of at least one measuring electrode have structures along sides of the finger electrodes facing adjacent finger electrodes of the other measuring electrode; wherein the structures protrude from a remainder of their respective side; and wherein the structures are formed by regularly arranged geometric shapes.

15. (Currently Amended) The sensor of claim 14, wherein ~~the raised pattern is formed by at least one of tips, squares, dots, and geometric shapes that are regularly arranged~~ the regularly arranged geometric shapes include at least one of tips, squares and dots.

16. (Previously Presented) The sensor of claim 9, wherein at least one central electrode is provided between the first measuring electrode and the second measuring electrode.

17. (Previously Presented) The sensor of claim 9, wherein the particles include soot particles.